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### NGTB45N60S1WG

Manufacturer Part Number NGTB45N60S1WG

Manufacturer **onsemi** 

Allelco Part Number 32D-NGTB45N60S1WG

ECAD Model

Request Free CAD Models

Parts Description IGBT 45A 600V TO-247

Package TO-247-3

Data sheet NGTB45N60S1WG.pdf

 $NGTB45N60S1WG\ -\ on semi. New\ Original\ in\ Stock.\ Download\ Linear\ Technology\ NGTB45N60S1WG\ datasheet/specifications\ on\ Allelco Elec.com.$ 

Request a quote for NGTB45N60S1WG, please send us email: info@allelco.com

#### **Specifications**

NGTB45N60S1WG Tech Specifications

NGTB45N60S1WG - onsemi technical specifications, attributes, parameters

Product Attribute	Attribute Value	Product Attribute	Attribute Value
Manufacturer	onsemi	Package / Case	TO-247-3
Voltage - Collector Emitter Breakdown (Max)	600 V	Package	Tube
Vce(on) (Max) @ Vge, Ic	2.4V @ 15V, 45A	Operating Temperature	-55°C ~ 175°C (TJ)
Test Condition	400V, 45A, 10Ohm, 15V	Mounting Type	Through Hole
Td (on/off) @ 25°C	72ns/132ns	Input Type	Standard
Switching Energy	1.25mJ (on), 530µJ (off)	IGBT Type	Trench
Supplier Device Package	TO-247-3	Gate Charge	125 nC
Series	-	Current - Collector Pulsed (Icm)	180 A
Reverse Recovery Time (trr)	70 ns	Current - Collector (Ic) (Max)	90 A
Power - Max	300 W	Base Product Number	NGTB45

#### **Parts with Similar Specifications**

The three parts on the right have similar specifications to onsemi NGTB45N60S1WG

The angle parts on the right have similar open				
Product Attribute	NO PICTURE	ON Semiconductor*	ON Semiconductor*	ON Semiconductor®
Part Number	NGTB45N60S1WG	NGTB40N60FLWG	NGTB50N65FL2WG	NGTB40N65FL2WG
Manufacturer	onsemi	onsemi	onsemi	onsemi
Test Condition	400V, 45A, 10Ohm, 15V	400V, 40A, 10Ohm, 15V	400V, 50A, 10Ohm, 15V	400V, 40A, 10Ohm, 15V
Supplier Device Package	TO-247-3	TO-247	TO-247-3	TO-247-3
Gate Charge	125 nC	171 nC	220 nC	170 nC
Voltage - Collector Emitter Breakdown (Max)	600 V	600 V	650 V	650 V
Package	Tube	Tube	Tube	Tube
Current - Collector Pulsed (Icm)	180 A	160 A	200 A	160 A
Reverse Recovery Time (trr)	70 ns	77 ns	94 ns	72 ns
Power - Max	300 W	257 W	417 W	366 W
IGBT Type	Trench	Trench Field Stop	Trench Field Stop	Trench Field Stop
Operating Temperature	-55°C ~ 175°C (TJ)	-55°C ~ 150°C (TJ)	-55°C ~ 175°C (TJ)	-55°C ~ 175°C (TJ)
Base Product Number	NGTB45	NGTB40	NGTB50	NGTB40
Current - Collector (Ic) (Max)	90 A	80 A	100 A	80 A
Series	-	-	-	-
Package / Case	TO-247-3	TO-247-3	TO-247-3	TO-247-3
Switching Energy	1.25mJ (on), 530μJ (off)	890µJ (on), 440µJ (off)	1.5mJ (on), 460µJ (off)	970μJ (on), 440μJ (off)
Input Type	Standard	Standard	Standard	Standard
Vce(on) (Max) @ Vge, Ic	2.4V @ 15V, 45A	2.1V @ 15V, 40A	2V @ 15V, 50A	2V @ 15V, 40A
Mounting Type	Through Hole	Through Hole	Through Hole	Through Hole
Td (on/off) @ 25°C	72ns/132ns	85ns/174ns	100ns/237ns	84ns/177ns

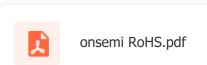
### NGTB45N60S1WG Datasheet PDF

Download NGTB45N60S1WG pdf datasheets and onsemi documentation for NGTB45N60S1WG - onsemi.

## Datasheets

NGTB45N60S1WG.pdf

### Environmental Information



### PCN Obsolescence/ EOL



Mult Dev EOL 18/Oct/2018.pdf

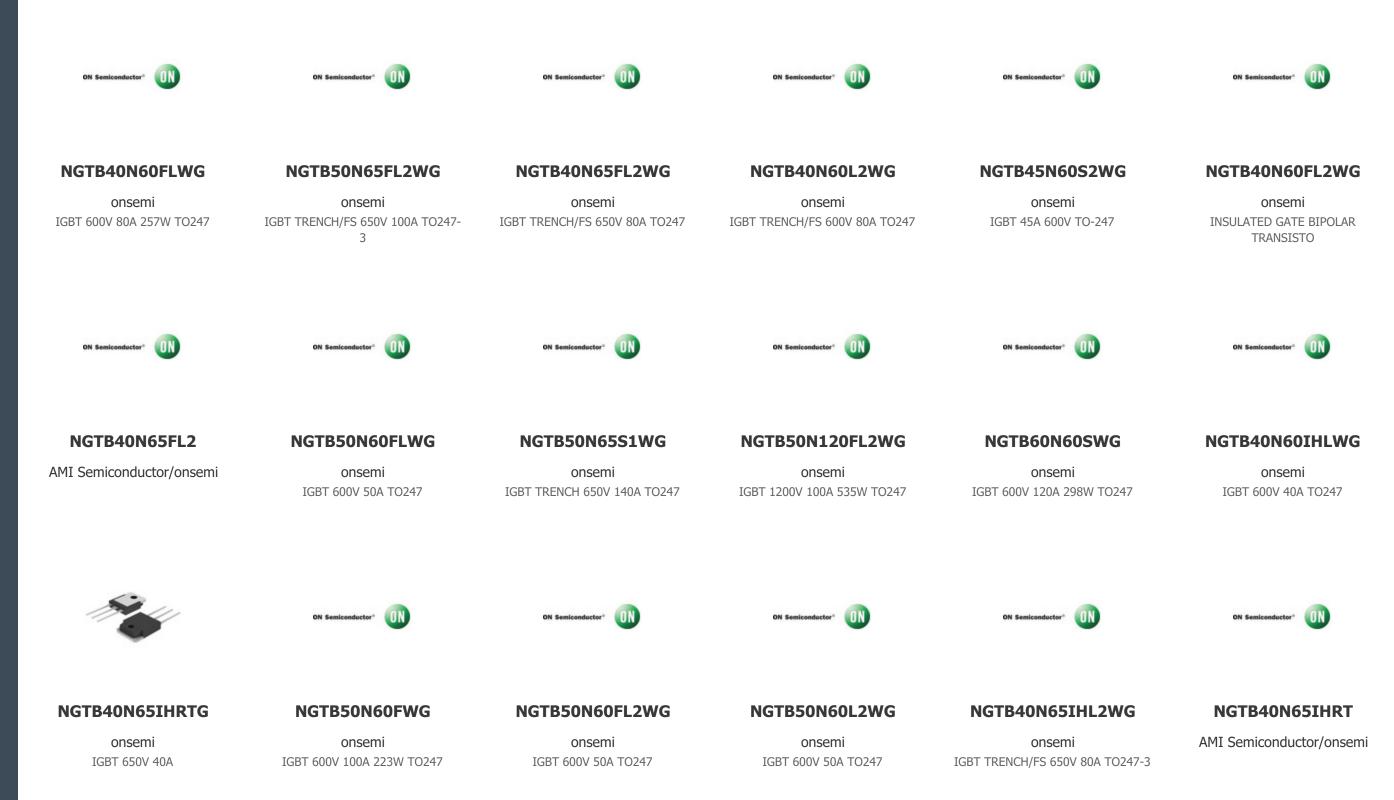
# PCN Design/Specification FPCN20461X 27/nov/2015.pdf

#### PCN Assembly/Origin



#### Customers Also Interested in

#### **Recommended Products**



#### **Shipment**

#### **Delivery Time**

In-stock items can be shipped within 24 hours. Some parts will be arranged for delivery within 1-2 days from the date all items arrive at our warehouse. And Allelco ships order once a day at about 17:00, except Sunday. Once the goods are shipped, the estimated delivery time depends on the shipping methods and Delivery destination. The table below shows are the logistic time for some common countries.

#### **Delivery Cost**

- > Use your express account for shipment if you have one.
- > Use our account for the shipment. Refer to the table below for the approximate charges.

(Different time frame / countries / package size has different price.)

#### **Delivery Method**

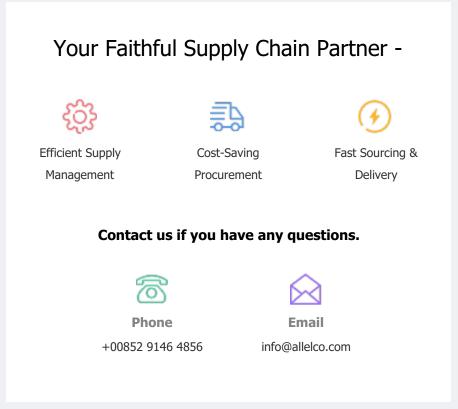
- > Global Common Shipment by DHL / UPS / FedEx / TNT / EMS / SF we support.
- > Others more shipping ways, please get in touch with your customer manager.

Common Countries Logistic Time Reference				
Region	Country	Logistic Time(Day)		
America	United States	5		
	Brazil	7		
Europe	Germany	5		
	United Kingdom	4		
	Italy	5		
Oceania	Australia	6		
	New Zealand	7		
Asia	India	6		
	Japan	7		
Middle East	Israel	6		

DHL & FedEx Shipment Charges Reference		
Shipment charges(KG)	Reference DHL(USD\$)	
0.00kg-1.00kg	USD\$60.00	
1.00kg-2.00kg	USD\$70.00	
2.00kg-3.00kg	USD\$80.00	

Note: The above table is for reference only. There may have some data bias for the uncontrollable factors. Contact us if you have any questions.

## **Payment Support** The payment method can be chosen from the methods shown below: Wire Transfer (T/T, Bank Transfer), Western Union, Credit card, PayPal. VISA EastWest Bank PayPal







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